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(54) PRODUCTION OF PRESSURE-SENSITIVE
ADHESIVE TAPE

(57) Abstract:

PURPOSE: To obtain a pressure-sensitive adhesive tape which can be cut in its traverse direction by the hand and has a sufficient tensile strength in the longitudinal direction, by weaving a warp and a weft composed of flat yarn made of a thermoplastic resin into a base cloth with a difference in the thread count of the warp and the weft and processing the cloth in a specified manner.

CONSTITUTION: A base cloth 1 for a tape is woven out of a warp 2 and a weft 3 composed of flat yarn made of a thermoplastic resin by using the warp 2 having lower denier than that of the weft 3 and using the warp 2 with a thread count higher than that of the weft 3. One side of the base cloth 1 is subjected to a corona discharge treatment and a thermoplastic resin is laminated onto the treated surface of the cloth by extrusion to deposit a first laminate layer 4 thereon. The surface of the laminate layer 4 is subjected to a corona discharge treatment and the thermoplastic resin of the same quality is laminated onto the treated surface by extrusion to deposit a second laminate layer 5 thereon. The back of the base cloth is then subjected

to a corona discharge treatment and then coated with a pressure-sensitive adhesive to form an adhesive layer 6, thus obtaining a pressure-sensitive adhesive tape. In this way, a tape can be obtd. which can be easily cut in the traverse direction by hand without using scissors and has a sufficient tensile strength in the longitudinal direction.

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